

Claims

1. An apparatus for manufacturing flat cable in which plural conductive wires arranged on the same plane are put between a first insulating tape on which first peeling sheets are stuck at predetermined intervals and a second insulating tape on which second peeling sheets are stuck at predetermined intervals to stick the first insulating tape, the conductive wires and the second insulating tape in order recited, the apparatus comprising:

first tension applying means and second tension applying means for respectively applying predetermined tensions to the first insulating tape and the second insulating tape;

detecting means for allowing the conductive wires to be put between the first insulating tape and the second insulating tape thereafter to detect passing of the first peeling sheet and the second peeling sheet; and

control means for calculating sticking errors of the first peeling sheets and the second peeling sheets on the basis of detection results that the detecting means have detected, and for controlling the first tension applying means and second tension applying means on the basis of these sticking errors,

wherein the control means controls the first tension applying means and the second tension applying means to thereby respectively adjust tensions of the first insulating tape and the second insulating tape.

2. The apparatus for manufacturing flat cable as set forth in claim 1, wherein the

first insulating tape and the second insulating tape are respectively wound on tape rolls, and wherein

the first tension applying means and the second tension applying means are rotational control means for controlling rotational drive of the tape rolls.

3. The apparatus for manufacturing flat cable as set forth in claim 1, wherein the first tension applying means and the second tension applying means are brake rolls disposed on travelling paths of the first insulating tape and the second insulating tape.

4. The apparatus for manufacturing flat cable as set forth in claim 1, wherein the first insulating tape and the second insulating tape are stuck through the conductive wires in such a manner to oppose the first peeling sheet and the second peeling sheet.

5. The apparatus for manufacturing flat cable as set forth in claim 1, wherein the first insulating tape and the second insulating tape are stuck through the conductive wires in such a manner that the first peeling sheets and the second peeling sheets are positionally shifted at predetermined intervals.

6. The apparatus for manufacturing flat cable as set forth in claim 1, which includes dancer rolls for respectively applying predetermined tensions to the first insulating tape and the second insulating tape.

7. A method for manufacturing flat cable in which plural conductive wires arranged on the same plane are put between a first insulating tape on which first peeling sheets are stuck at predetermined intervals and a second insulating tape on which second peeling sheets are stuck at predetermined intervals to stick the first

insulating tape, the conductive wires and the second insulating tape in order recited, the method comprising the steps of:

allowing the conductive wires to be put between the first insulating tape and the second insulating tape thereafter to detect passing of the first peeling sheet and the second peeling sheet;

calculating sticking errors of the first peeling sheets and the second peeling sheets on the basis of the detection results; and

respectively adjusting tensions applied to the first insulating tape and the second insulating tape on the basis of the sticking errors.

8. The method for manufacturing flat cable as set forth in claim 7, wherein the first insulating tape and the second insulating tape are stuck through the conductive wires so as to oppose the first peeling sheet and the second peeling sheet.

9. The method for manufacturing flat cable as set forth in claim 7, wherein the first insulating tape and the second insulating tape are stuck through the conductive wires in such a manner that the first peeling sheet and the second peeling sheet are positionally shifted at predetermined intervals.

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